

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A manufacturing method of a smectic liquid crystal device comprising ~~the steps of~~:

(a) inducing an isotropic phase-nematic phase-smectic phase as a phase sequence of a mixture obtained by adding a photopolymerizable monomer liquid crystal exhibiting nematic phase to a smectic liquid crystal; and

(b) irradiating the mixture with UV rays so that the monomer is photopolymerized into a polymer to thereby form a smectic liquid crystal medium with a uniform orientation structure.

Claim 2 (Currently Amended): ~~A~~The manufacturing method of a smectic liquid crystal device according to claim 1,

wherein: the polymer functions as a template that memorizes and stabilizes the orientation structure in ~~the step~~ (b), and

wherein a smectic liquid crystal medium with a uniform orientation structure which is completely the same as that before phase transformation, even if transformation into an isotropic phase after ~~the step~~ (b), is performed is obtained directly from the isotropic phase.

Claim 3 (Currently Amended): A smectic liquid crystal device manufactured by the manufacturing method according to claim 1 ~~or 2~~.

Claim 4 (New): The smectic liquid crystal device manufactured by the manufacturing method according to claim 2.